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| APPLICATION NO.                  | FILING DATE               | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------------|---------------------------|----------------------|---------------------|------------------|
| 10/553,647                       | 10/14/2005                | Tae Wan Kim          | DE1657              | 5573             |
| 79681<br>Baker & Hostet          | 7590 04/24/200<br>ler LLP | 9                    | EXAM                | IINER            |
| Attn: Jim Coffn                  |                           | TRAN, THAO T         |                     |                  |
| 45 Rockefeller I<br>New York, NY |                           |                      | ART UNIT            | PAPER NUMBER     |
|                                  |                           |                      | 1794                |                  |
|                                  |                           |                      |                     |                  |
|                                  |                           |                      | MAIL DATE           | DELIVERY MODE    |
|                                  |                           |                      | 04/24/2009          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.  | Applicant(s)       |        |  |  |  |  |
|--|--|--------------------|--------|--|--|--|--|
|  | 10/553,647   | KIM ET AL.         |        |  |  |  |  |
| Office Action Summary  | Examiner   | Art Unit           |        |  |  |  |  |
|  | Thao T. Tran   | 1794               |        |  |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply   | ears on the cover sheet with the c   | orrespondence ad   | ldress |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |                    |        |  |  |  |  |
| Status   |  |                    |        |  |  |  |  |
| 1)⊠ Responsive to communication(s) filed on <u>26 Ma</u>   | arch 2009.   |                    |        |  |  |  |  |
| •  | action is non-final.   |                    |        |  |  |  |  |
| <i>,</i> —   | <del></del>  |                    |        |  |  |  |  |
| closed in accordance with the practice under E   |  |                    |        |  |  |  |  |
| Disposition of Claims  |  |                    |        |  |  |  |  |
| 4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.  |  |                    |        |  |  |  |  |
| •  | 4a) Of the above claim(s) <u>9-11</u> is/are withdrawn from consideration.                 |                    |        |  |  |  |  |
| 5) Claim(s) is/are allowed.  |  |                    |        |  |  |  |  |
| 6)⊠ Claim(s) <u>1-8</u> is/are rejected.   |  |                    |        |  |  |  |  |
| 7) Claim(s) is/are objected to.  |  |                    |        |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or  | election requirement.  |                    |        |  |  |  |  |
| Application Papers   |  |                    |        |  |  |  |  |
| 9) The specification is objected to by the Examiner.   |  |                    |        |  |  |  |  |
|  | 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.         |                    |        |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |                    |        |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |  |                    |        |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |                    |        |  |  |  |  |
| Priority under 35 U.S.C. § 119   |  |                    |        |  |  |  |  |
| 12)⊠ Acknowledgment is made of a claim for foreign   | priority under 35 H S C & 119(a)   | -(d) or (f)        |        |  |  |  |  |
| a)⊠ All b)□ Some * c)□ None of:  | priority under 35 G.G.G. § 115(a)  | -(a) or (i).       |        |  |  |  |  |
| 1. ☐ Certified copies of the priority documents  | s have been received   |                    |        |  |  |  |  |
| 2. Certified copies of the priority documents  |  | on No              |        |  |  |  |  |
| 3. ☐ Copies of the certified copies of the prior   |  | <u> </u>           | Stane  |  |  |  |  |
| application from the International Bureau  | •  | a in this National | Olage  |  |  |  |  |
|  | * See the attached detailed Office action for a list of the certified copies not received. |                    |        |  |  |  |  |
| See the attached detailed Office action for a list of the certified copies not received.   |  |                    |        |  |  |  |  |
|  |  |                    |        |  |  |  |  |
| Attachment(s)  | 4) T laster to 2   | (DTO 442)          |        |  |  |  |  |
| 1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  |  |                    |        |  |  |  |  |
| 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application  |  |                    |        |  |  |  |  |
| Paper No(s)/Mail Date 6) Uther:  |  |                    |        |  |  |  |  |

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## **DETAILED ACTION**

1. This is in response to the Amendment filed on 3/26/2009.

2. Claims 1-11 are currently pending in this application. Claim 1 has been amended. Claims

9-11 have been previously withdrawn as directed to a non-elected invention.

3. In view of the Amendment, the previous rejection has been withdrawn.

4. In light of newly found prior art, the claims are now rejected as set forth below.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Audsley et al. (US Pat. 4,929,403).

Audsley discloses a mold used to cast duplicate reproductions of an object. The mold is formed from a radiatively curable molding composition, the composition comprising at least a urethane oligomer; at least one reactive monomer; a photoinitiator, a plasticizer, and a surfactant; the amounts of which read on the presently claimed ranges (see abstract; Examples). In another embodiment, the reference discloses the materials used in the mold including urethane, acrylics, silicones in a ratio that reads on the presently claimed ranges (see col. 12, ln. 38-44).

Therefore, it would have been obvious to one of ordinary skill in the art to have employed all the chemical components including silicone in the compositions presented in the

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Examples of the reference or including a photoinitiator in the embodiment presented in col. 12 of the reference. Silicones are effective release agents and adding them into the composition would help separating the mold from the object easily. The use of a photoinitiator would enhance photosensitivity of the composition.

## Response to Arguments

7. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

## Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

examiner can normally be reached on Monday-Friday, from 9:00 a.m. - 5:30 p.m..

supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thao T. Tran/

Primary Examiner, Art Unit 1794

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